

## Vandersteen KĒNTO Carbon X-Over and Sub Set Up Data

**HIGH PASS SETTING FOR KĒNTO CARBON IS 200 HZ NOT 100 HZ LIKE ALL OTHER POWERED-SUB SPEAKERS.**  
 THE MOST IMPORTANT FIRST STEP IN THE SETUP IS SETTING THE 3dB DOWN POINT ACCORDING TO THE INPUT IMPEDANCE OF THE (MAIN) AMPLIFIER. LOOK UP THE INPUT IMPEDANCE SPECIFICATION OF THE MAIN AMPLIFIER AND SET THE M5-HP TO TWICE THE SPECIFIED SETTING. THEN TAKE ANY DIGITAL VOLTMETER SET TO AC VOLTS. WITH THE MAIN AMPLIFIER PROPERLY HOOKED UP TO THE MAIN SPEAKERS, WITH THE VOLTMETER ACROSS THE BLACK AND RED OUTPUT TERMINALS. PLAY THE KĒNTO CARBON VANDERTONES TEST DISC II TRACK 27 (1000HZ) ADJUST THE PREAMP VOLUME FOR 1 VOLT. PLAY TRACK 32 (200HZ) AND THE VOLTAGE SHOULD BE .707 VOLTS. IF IT IS HIGHER THAN .707 ADJUST THE M5-HP CROSSOVER TO THE NEXT HIGHER IMPEDANCE SETTING. IF THE VOLTAGE IS LESS THAN .707 ADJUST THE M5-HP TO THE NEXT LOWER IMPEDANCE SETTING. THEN RUN THE PROCESS AGAIN (INSURING TRACK 27 YIELDS 1 VOLT) UNTIL YOU GET THE CORRECT RESULT.

-This sheet is for KĒNTO Carbon only.  
 -Vandertones Disc II is only calibrated for a Radio Shack Analog SPL meter set on 70 Db scale "C" weighting "FAST" response.  
 -Make sure the Level is set to "0" and Contour set to "1".  
 -Place the Radio Shack Analog SPL meter at the listening position ear level.

Full bass calibration instructions are in the KĒNTO Owner's Manual Page 12

Vandertone Track Left Channel	Frequency	+/- Reading compared to 70 db	1/3 of Reading Target	Measured Outcome 1	Measured Outcome 2
Track 34 pot 1	20 Hz				
Track 35 pot 2	24 Hz				
Track 36 pot 3	30 Hz				
Track 37 pot 4	36 Hz				
Track 38 pot 5	42 Hz				
Track 39 pot 6	50 Hz				
Track 40 pot 7	60 Hz				
Track 41 pot 8	72 Hz				
<b>Track 42 pot 9</b>	<b>100 Hz</b>				
<b>Track 43 pot 10</b>	<b>135 Hz</b>				
<b>Track 44 pot 11</b>	<b>180 Hz</b>				

Vandertone Track Right Channel	Frequency	+/- Reading compared to 70 db	1/3 of Reading Target	Measured Outcome 1	Measured Outcome 2
Track 45 pot 1	20 Hz				
Track 46 pot 2	24 Hz				
Track 47 pot 3	30 Hz				
Track 48 pot 4	36 Hz				
Track 49 pot 5	42 Hz				
Track 50 pot 6	50 Hz				
Track 51 pot 7	60 Hz				
Track 52 pot 8	72 Hz				
<b>Track 53 pot 9</b>	<b>100 Hz</b>				
<b>Track 54 pot 10</b>	<b>135 Hz</b>				
<b>Track 55 pot 11</b>	<b>180 Hz</b>				